REMARKS

Claim 8 has been amended, and claims 9 and 15 have been cancelled without prejudice or disclaimer. Claims 8, 10-12, 16, and 23-25 are pending in the instant application. No new matter has been added as a result of the above-described amendments. The objections and rejections set forth in the Office Action have been overcome by amendment.

Applicants wish to thank Examiner Switzer for her participation in a telephonic Interview with Huw Jones and Applicants' undersigned representative on June 4, 2007 to discuss the pending claims of the instant application. During the telephonic Interview, the Examiner and Applicants' undersigned representative discussed the rejections made in the Office Action mailed January 17, 2007, as well as proposed amendments for overcoming the rejections. The Examiner suggested that to expedite allowance of the pending claims, Applicants amend claim 8 to incorporate the limitations of claim 15. However, agreement with respect to the claims was not reached. At the conclusion of the Interview, the Examiner indicated that the Action mailed January 17, 2007 would be withdrawn, and that a new Office Action (i.e., the instant Action) would be issued.

1. Rejections of claims 9 and 15 under 35 U.S.C. § 112, first paragraph

The Office Action contains rejections of claims 9 and 15 under 35 U.S.C. § 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention.

a. Claim 9

The Action asserts that the limitation that "the proportion of total HPV DNA in the reagent that comprises labeled nucleic acid fragments of the first genomic HPV DNA probe set and the proportion of total HPV DNA in the reagent that comprises labeled nucleic acid fragments of the third genomic HPV DNA probe set are decreased relative to the proportions of the total HPV DNA in the reagent that comprise labeled nucleic acid fragments of the other HPV DNA probe sets" in claim 9 constitutes new matter. The Action states that the specification provides a single example encompassed by claim 9, but does not discuss or contemplate the broad genus of methods recited in the claim. The Action also states that no specific basis for the limitation could be found in the

specification, and concludes that the claims incorporate new matter.

Applicants have cancelled claim 9, rendering this ground of rejection moot. Applicants, therefore, respectfully request that this ground of rejection be withdrawn.

b. Claim 15

The Action asserts that the recitation of the term "about" prior to the statement of the percentages of total HPV DNA in the reagent for each of the plurality of nucleic acid fragments in claim 15 constitutes new matter. The Action states that the specification does not provide any basis for modifications that are "about" each of the recited percentages. The Action also states that the recitation of, for example, "about 8.3%" encompasses percentages that are above and below the recited numbers, but that the specification only contemplates "8.3%" and not "about 8.3%."

Applicants have cancelled claim 15, rendering this ground of rejection moot. Applicants, therefore, respectfully request that this ground of rejection be withdrawn.

Applicants contend that the new matter rejections have been overcome by amendment, and therefore, respectfully request that these rejections be withdrawn.

2. Rejections of claims 8-12, 16, and 23-25 under 35 U.S.C. § 112, first paragraph

 Rejection of claims 8-12, 16, and 23-25 under the written description requirement of 35 U.S.C. § 112, first paragraph

The Office Action contains a rejection of claims 8-12, 16, and 23-25 under 35 U.S.C. § 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention. The Action states that while the specification describes a single reagent that meets the functional limitations of claim 8 (i.e., the reagent described in Example 1 having the percentages listed in Table 2), the claims are much broader than what is described in the specification with regard to what nucleic acid is required to be in the probe and how much of that nucleic acid must be in the probe. The Action also states that the claims are inclusive of genomic HPV DNA probe sets at any concentration relative to one another, and further, are inclusive of additional probe sets within the reagent since claim 8 recites "a reagent

comprising a plurality of genomic HPV DNA probe sets." The Action further states that while claim 9 requires that the genomic HPV DNA probe sets for HPV types 16 and 31 have lower representation in the reagent than the other recited probe sets, this claim allows for any possible proportions within this generic requirement. The Action further states that while Applicants are clearly in possession of a reagent comprising probe sets produced by nick-translation of the full-length genome of six separate plasmids, each plasmid containing the whole genome of HPV types 16, 18, 31, 33, 35, or 51, wherein the probe sets derived from HPV types 18, 33, 35, and 51 are present at 0.5 ng/mL and the probe sets derived from HPV types 16 and 31 are present at 0.2 ng/mL, the claims encompass hundreds of thousands of possible reagents.

Applicants have cancelled claims 9 and 15, and have amended claim 8 to recite that the individual genomic HPV DNA probe sets comprise a plurality of labeled nucleic acid fragments constituting approximately 8.3% or 20.8% (depending on the HPV type from which the probe set is derived) of the total HPV DNA in the reagent. Applicants note that a reagent containing 8.3% of HPV types 16 and 31 and 20.8% of HPV types 18, 33, 35, and 51 contains 99.8% HPV DNA. Thus, Applicants have amended claim 8 to recite that the reagent contain "approximately 8.3%" and "approximately 20.8%." Applicants contend that the recitation of the term "approximately" does not introduce new matter or render claim 8 indefinite since one of ordinary skill in the art would recognize that the percentages recited in Table 2 must be approximate values since the total amount of HPV DNA in the reagent described in Example 1 must be 100% (this must be true regardless of the amount of each genomic HPV DNA probe set added to the reagent). In view of cancellation of claims 9 and 15, and the amendment of claim 8, Applicants respectfully request that this ground of rejection be withdrawn.

 Rejection of claims 8-12, 16, and 23-25 under the enablement requirement of 35 U.S.C. § 112, first paragraph

The Office Action asserts a rejection of claims 8-12, 16, and 23-25 under 35 U.S.C. § 112, first paragraph, as containing subject matter that was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention. The Action states that while the specification is enabling for the method of claim 15, it does not provide enablement for methods encompassing reagents having different

proportions of HPV probes sets and which retain the functional properties recited in the claims. The Action also states that it would require undue experimentation to make and use the claimed invention

commensurate in scope with claims.

As described above in section 2(a), Applicants have cancelled claims 9 and 15, and have amended claim 8. In view of cancellation of claims 9 and 15, and the amendment of claim 8.

Applicants respectfully request that this ground of rejection be withdrawn.

Applicants contend that the rejections based on the written description and enablement

requirements of 35 U.S.C. § 112, first paragraph, have been overcome by amendment, and therefore,

respectfully request that these rejections be withdrawn.

CONCLUSIONS

Applicants respectfully contend that all conditions of patentability are met in the pending

claims as amended. Allowance of the claims is thereby respectfully solicited.

By:

If Examiner Switzer believes it to be helpful, she is invited to contact the undersigned

representative by telephone at 312-913-0001.

Respectfully submitted,

McDonnell Boehnen Hulbert & Berghoff LLP

Dated: May 7, 2008

/Donald L. Zuhn, Jr./

Donald L. Zuhn, Jr., Ph.D.

Reg. No. 48,710

8